



P.B.5818 - Patentlaan 2
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ALLEMAGNE

Eingang bei ZPL

30. APR 2003

Term.
Bearb.

2.7.03

Search Report checked 6

ja, 23.5.03

23.5.03

Datum/Date

02.05.03

Zeichen/Ref./Réf.

104 570

Anmeldung Nr./Application No./Demande n°/Patent Nr./Patent No./Brevet n°.

02360314.5-1524-

Anmelder/Applicant/Demandeur/Patentinhaber/Proprietor/Titulaire

ALCATEL

COMMUNICATION

Druckfassung stellen.

The European Patent Office herewith transmits as an enclosure the European search report for the above-mentioned European patent application.

If applicable, copies of the documents cited in the European search report are attached.

☐ Additional set(s) of copies of the documents cited in the European search report is (are) enclosed as well.

The following specifications given by the applicant have been approved by the Search Division:

☐ abstract

☐ title

☒ The abstract was modified by the Search Division and the definitive text is attached to this communication.

The following figure will be published together with the abstract: 2

REFUND OF THE SEARCH FEE

If applicable under Article 10 Rules relating to fees, a separate communication from the Receiving Section on the refund of the search fee will be sent later.





DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IntCl.7)
D1 X,D	WO 00 49436 A (UNIV BATH ;BIRKS TIMOTHY ADAM (GB); KNIGHT JONATHAN CAVE (GB); RUS) 24 August 2000 (2000-08-24) * the whole document *	1,2,4,5	G02B6/12
D2 X	US 2002/131737 A1 (BARKOU STIG EIGIL ET AL) 19 September 2002 (2002-09-19) * paragraphs '0005!-'0014!', '0045!', '0064!', '0065!', '0078!', '0088!', '0091!', '0094!', '0097!' * * paragraphs '0101!', '0104!', '0105!', '0114!', '0120!', '0124!'; claim 30; figures 4,7 *	1-4,6	Zus. bessere Abgrenzung gegenüber dieser Druckschrift habe ich Fasp. 1 eingeschränkt. Diese Fassung für Nebeanmeldung verwenden.
D3 A	US 2002/131742 A1 (BERTHELOT LAURENT ET AL) 19 September 2002 (2002-09-19) * paragraphs '0009!-'0014!', '0027!', '0028!', '0042!', '0055!', '0056!'; claims 1,2,10,11 *	1,3,6	
The present search report has been drawn up for all claims			TECHNICAL FIELDS SEARCHED (IntCl.7)
			G02B
Place of search			Examiner
BERLIN			Fazio, V
Date of completion of the search			
10 April 2003			
CATEGORY OF CITED DOCUMENTS			
X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			

**ANNEX TO THE EUROPEAN SEARCH REPORT
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This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on
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10-04-2003

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ABSTRACT / ZUSAMMENFASSUNG / ABREGE

02360314.5

The object of the present invention is to design a photonic crystal fiber with high birefringence property such to preserve the polarization of optical signals transmitted through such fiber without implying too high manufacturing costs. To achieve that a photonic crystal fiber is designed having at least the inner rows of longitudinal holes surrounding its guiding core following a parallelogram-shape arrangement. This leads to a photonic crystal with an at most two-fold rotational symmetry about a longitudinal axis. It is a particularly advantageous way of introducing a high birefringence which will guarantee the preservation of the polarisation of the transmitted optical signals.